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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/800,534	03/15/2004	Boris L. Khaykin	10541-1946	1336
29074	7590	03/23/2006	EXAMINER	
VISTEON			DEB, ANJAN K	
C/O BRINKS HOFER GILSON & LIONE			ART UNIT	
PO BOX 10395			PAPER NUMBER	
CHICAGO, IL 60610			2858	

DATE MAILED: 03/23/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

**SUPPLEMENTAL  
Notice of Allowability**

Application No.

10/800,534

Examiner

Anjan K. Deb

Applicant(s)

KHAYKIN ET AL.

Art Unit

2858

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to interview summary filed 3/20/2006.
2. ☒ The allowed claim(s) is/are 1-12.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All b) ☐ Some\* c) ☐ None of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413),  
Paper No./Mail Date 3/20/2006.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

*Anjan K. Deb*

Anjan K Deb  
Primary Examiner  
Art Unit: 2858

### **DETAILED ACTION**

1. This office action is in response to interview summary filed 3/20/2006.

#### ***Examiner's Amendment***

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Robert K. Fergan on 3/20/2006.

The application has been amended as follows:

In claim 6, line 2, replace "6" with – 5 –

#### ***Allowable Subject Matter***

3. Claims 1-12 are allowed.

#### ***Reasons for Allowance***

4. The following is an examiner's statement of reasons for allowance:

The primary reason for allowance of the claims is the inclusion of bridge tied load amplifier, having an input in electrical communication with signal generation circuit and resolver having an excitation winding in electrical communication with the bridge tied load amplifier in combination with remaining claims limitations.

### *Conclusion*

5 . The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Hayashi (US 20030001564 A1) discloses position sensor 1 for a rotating shaft comprising resolver having one-phase sinusoidal excitation and two-phase output (FIG. 2).

Cranfill (US 20050046551 A1) discloses resolver (tactile transducers) receiving input from Bridge Tied Load (BTL) Amplifier and producing first and second outputs (130, 140).

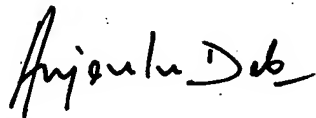
Kushihara (US 5,637,998) discloses digital system for detecting angular position comprising resolver 2 that inputs one single-phase excitation signal and outputs two signals of different phases (Fig. 2).

Ohno (US 4,455,514) discloses rotor position sensor comprising BTL amplifier (19,20) providing inputs to windings L11, L12 (Fig. 2).

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Art Unit: 2858

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dr. Anjan K. Deb whose telephone number is 571-272-2228. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Diane Lee can be reached at 571-272-2399.



**Anjan K. Deb**

Primary Patent Examiner

Art Unit: 2858

3/20/06

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